

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-6 - Cancelled.

7. (Currently Amended)) An MRI apparatus which comprises an MRI shim coil having one or more coil sections containing a plurality of layers with of windings made of insulated conductor, each layer having a plurality of layers of windings made of insulated conductor, each layer having a plurality of turns, wherein the MRI shim coil is said one or more coil sections are each wound in two or more sub-sections, each sub-section of the MRI coil section incorporating some or all of said plurality of layers, and having fewer turns per layer than the coil section of which it forms a part whereby reduction of a self-resonant frequency of the shim coil can be reduced but only some of the turns in each layer.

8. (Currently Amended) An MRI apparatus as in claim 7 wherein insulating material is disposed between each layer of turns in addition to the insulation otherwise disposed about each said insulated conductor.

9. (Previously Presented) An MRI apparatus as in claim 8 wherein the insulating material is glass cloth.

10-15. Cancelled

16. (New) A method for reducing a self-resonant frequency of an MRI shim coil, said method comprising:

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arranging an MRI shim coil in plural coil sections, each section containing a plurality of layers of windings made of insulated conductor, each layer having a plurality of turns; and

arranging each of said coil sections in two or more sub-sections, each sub-section incorporating turns in at least one of said plurality of layers whereby reduction of the self-resonant frequency of the shim coil can be reduced.